



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Thomas Tuschl, Phillip D. Zamore, Phillip A. Sharp and David P. Bartel

P#14

Application No.: 09/821,832

Group Art Unit: 1645

Filed: March 30, 2001

Examiner: Not Assigned

Title: RNA Sequence-Specific Mediators of RNA Interference

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202	
on 6.5.02	<i>Jenine Crump</i>
Date	Signature
<i>Jenine Crump</i>	
Typed or printed name of person signing certificate	

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
P.O. Box 2327  
Arlington, VA 22202

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or

(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:

☐ a Statement under 37 CFR 1.97(e), as checked below, or

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:

☐ a Statement under 37 CFR 1.97(e), as checked below, and

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.
- ☒ Enclosed herewith is form PTO-1449:
- ☒ Copies of the cited references are enclosed (AU6-AZ6 and AR7-AV7).
- ☐ Copies of cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]
- ☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.
- ☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
  - ☐ the explanation provided in the Specification.
  - ☐ submission of the enclosed International Search Report.
  - ☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
  - ☐ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]  
\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

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Dated: June 5, 2002

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 0399.2008-002		APPLICATION NO. 09/821,832	
<b>SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  June 5, 2002 (Use several sheets if necessary)		APPLICANT Thomas Tuschl, et al.			
		FILING DATE March 30, 2001		GROUP 1645	
U.S. PATENT DOCUMENTS					
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS
	AB				
	AC				
	AD				
	AE				
	AF				
	AG				
	AH				
	AI				
	AJ				
	AK				
FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS
	AL				
	AM				
	AN				
	AO				
	AP				
	AQ				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
	AU6	Lam, G., and Thummel, C. S. (2000). Inducible expression of double-stranded RNA directs specific genetic interference in <i>Drosophila</i> . <i>Curr. Biol.</i> 10, 957-963.,			
	AV6	Misquitta, L., and Paterson, B. M. (1999). Targeted disruption of gene function in <i>Drosophila</i> by RNA interference (RNA-i): a role for nautilus in embryonic somatic muscle formation. <i>Proc. Natl. Acad. Sci. USA</i> 96, 1451-1456.			
	AW6	Montgomery, M. K., et al., (1998). RNA as a target of double-stranded RNA-mediated genetic interference in <i>Caenorhabditis elegans</i> . <i>Proc. Natl. Acad. Sci. USA</i> 95, 15502-15507.			
	AX6	Nakano, H., et al., (2000). RNA interference for the organizer-specific gene <i>Xlim-1</i> in <i>Xenopus</i> embryos. <i>Biochem. Biophys. Res. Commun.</i> 274, 434-439.			
EXAMINER			DATE CONSIDERED		

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 0399.2008-002	APPLICATION NO. 09/821,832
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June 5, 2002 (Use several sheets if necessary)		FILING DATE March 30, 2001	GROUP 1645
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
AY6	Parrish, S., et al., (2000). Functional anatomy of a dsRNA trigger. Differential requirement for the two trigger strands in RNA interference. Mol Cell 6, 1077-1087.		
AZ6	Sánchez-Alvarado, A., and Newmark, P. A. (1999). Double-stranded RNA specifically disrupts gene expression during planarian regeneration. Proc. Natl. Acad. Sci. USA 96, 5049-5054.		
AR7	Schiebel, W., et al., (1998). Isolation of an RNA-directed RNA polymerase-specific cDNA clone from tomato. Plant Cell 10, 2087-2101.		
AS7	Smith, N. A., et al., (2000). Total silencing by intron-spliced hairpin RNAs. Nature 407, 319-320.		
AT7	Wu-Scharf, D., et al., (2000). Transgene and transposon silencing in chlamydomonas reinhardtii by a DEAH-Box RNA helicase. Science 290, 1159-1162.		
AU7	Yang, D., et al., (2000). Evidence that processed small dsRNAs may mediate sequence-specific mRNA degradation during RNAi in Drosophila embryos. Curr. Biol. 10, 1191-1200.		
AV7	Zhao, Z., et al., (2001). Double-Stranded RNA Injection Produces Nonspecific Defects in Zebrafish. Dev. Biol. 229, 215-223.		
AW7			
AX7			
AY7			
AZ7			
AR8			
AS8			
AT8			
EXAMINER		DATE CONSIDERED	